



NAVFAC EURAFSWA E2S2 Conference

May 2011



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Kingdom of Bahrain

NSA Bahrain ...

The Tip of The Spear

- Bahrain: Two Seas
- Smallest Country and the Only Island-state in the Gulf
- 36 Islands/3 Inhabited
- Area: 620 KM2 (385 M2)
- 3.5 Times the Size of DC
- Population: 1.05 Million





Environmental Program



- Kingdom of Bahrain

- NSA Bahrain
- AV Unit
- ISA Air Base
- Riffa Site
- Mina Salman
- Khalifa Bin Salman Port

Breaking Through Operational Barriers ...

Taking Actions & Delivering Results

- United Arab Emirates

- Port of Jebel Ali (Quay 9)
- Port of Fujairah

- Republic of Djibouti

- Camp Lemonnier
- Port of Djibouti

- COMFIFTHFLT Area of Responsibility (AOR)





Introduction



- **Challenges to Environmental Management at Joint Navy Installations Illustrated through discussion of:**
 - **Camp Lemonnier Djibouti, and**
 - **ISA Air Force Base, Bahrain**



Camp Lemonnier, Djibouti



- **First Operated by French Foreign Legion**
 - Developed by the French in the 1970's
- **USMC Assumes Control from French**
 - 2002
 - Developed Camp for increased strength/operation
- **Operation Control Transferred to the USN**
 - July 2006
 - Expeditionary Camp





Environmental Management Challenges



- **Establish a Baseline and Improve**
- **Prioritize Tasks for:**
 - **Air**
 - **POL**
 - **Pollution Prevention**
 - **Recycling**
 - **Water**
 - **Waste**
 - **Liquid**
 - **Solid**
 - **Hazardous**



Challenges

Camp Lemonnier, Djibouti



- **Location is Remote and Isolated**
- **Perform Mission – Control Environmental Footprint**
- **High Rate of Personnel Turnover**
 - **Continual Training and Education**
- **Lack of Local Resources**
- **Manpower**



Challenges

Camp Lemonnier, Djibouti



- **Cultural Differences**

- Djiboutian reality illustrates survival is more important than protecting the environment
- Common land fill/dump, attracts people looking for food, clothing, shelter
 - Promotes disease
- Camp Lemonnier downwind from landfill
 - Air quality issues
 - Requires sampling and monitoring
 - Establish Air Quality Alert System



Challenges

Camp Lemonnier, Djibouti



- **Host Nation Resources**
 - Poor country with no natural resources.
 - No substantial environmental laws
- **Best Management Practices**
 - Move landfill or monitor / incinerate waste
 - Cost to Implement BMP versus
 - Compliance with Navy Policy /
 - Host Nation Laws / US Laws & Regulations / OEBGD / FGS
- **Goal – Leave site and community in better shape than when we arrived**





Comparison with CLDJ



ISA Air Force Base, Bahrain

- **USN conducts baseline survey**
- **USN accepts responsibility for environmental management from Bahrain Defense Force**
- **Challenges to Environmental Management at ISA are almost the same**



Success Depends



- **Success Depends on:**
 - Outreach and Education
 - Commitment to Host Nation
 - Environmental Stewardship / Set Example
 - Building Trust and Creating Opportunities for Local Nationals and Businesses





CNREURAFSWA DET Bahrain

NOSC AOR



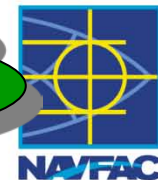


ONE TEAM ... ONE ENVIRONMENT





Reaching New Heights of Excellence



| Award | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
|-------------------------|----|----|----|----|----|----|----|----|----|----|----|----|
| WHITE HOUSE | X | | | | | | | X | | | | |
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| COMM SERV / STEWARDSHIP | | | | | | | | X | | | | |
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Welcome to
NSA Bahrain

